

WHAT IS CLAIMED IS:

- 5 1. A data processing apparatus comprising:
- a) input means for inputting data;
- b) encoding means for compression-encoding the
- c) first packetizing means for packetizing the
- data encoded by said encoding means into a first data
- train on a basis of a first data length;
- d) second packetizing means for packetizing the
- 10 first data train generated by said first packetizing
- means into a second data train on a basis of a second
- data length; and
- e) control means for controlling the first data
- length used by said first packetizing means in
- 15 accordance with the second data length.
2. A data processing apparatus according to claim
- 1, wherein said encoding means compression-encodes the
- data on a basis of a predetermined data length, and
- 20 said control means controls the first data length in
- accordance with the predetermined encoding data length
- and the second data length.
3. A data processing apparatus according to claim
- 25 2, wherein said control means controls the first data
- length to have a value being equal to N (N: integer)
- times the predetermined encoding data length and near

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to a value not exceeding L (L: integer) times the second data length.

4. A data processing apparatus according to claim
5 1, wherein the data is audio data.

5. A data processing apparatus according to claim
2, further comprising:

reference time information generation means for
10 generating reference time information; and

time management information generation means for
generating time management information representative
of an input time of the data to said input means, in
accordance with the reference time information,

15 wherein said first packetizing means adds the time
management information to the first data train based
upon a first period, and said second packetizing means
adds the reference time information to the second data
train based upon a second period.

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6. A data processing apparatus according to claim
5, wherein said control means controls the first data
length in accordance with the time management
information.

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7. A data processing apparatus according to claim
6, wherein the reference time information is PCR of

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MPEG specifications and the time management information is PTS of MPEG standard.

8. A data processing apparatus according to claim
5 6, wherein said control means controls the first data
length to maximize the predetermined encoding data
length satisfying the first period and have a value
being equal to a minimum common multiple of the
predetermined encoding data length and the second data
10 length or being equal to N (N : integer) times the
predetermined encoding data length and near to a value
not exceeding L (L : integer) times the second data
length.

9. A data processing apparatus according to claim
15 1, wherein said encoding means can change a compression
factor.

10. A data processing apparatus according to
20 claim 1, wherein said second packetizing means adds, if
necessary, redundant data to form the second data
train.

11. A data processing apparatus according to
25 claim 1, further comprising:
image data input means for inputting image data;
image data encoding means for compression-encoding

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the image data; and

third packetizing means for packetizing the image data encoded by said encoding means on a basis of a third data length,

5 wherein said second packetizing means packetizes the third data train generated by said third packetizing means on a basis of the second data length.

12. A data processing apparatus according to
10 claim 11, wherein said image data encoding means compression-encodes the image data in conformity with MPEG.

13. A data processing apparatus according to
15 claim 11, further comprising a video camera for outputting the data and the image data.

14. A data processing apparatus according to
20 claim 11, further comprising transmission means for transmitting the second data train.

15. A data processing apparatus according to
claim 14, further comprising decoding means for
decoding the second data train transmitted by said
25 transmission means.

16. A data processing apparatus according to

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claim 15, further comprising display means for displaying the image data decoded by said decoding means.

5 17. A decoding apparatus for decoding the second data train transmitted by the data processing apparatus recited in claim 14.

10 18. A data processing method comprising the steps of:
 inputting data;
 compression-encoding the data;
 packetizing the encoded data into a first data train on a basis of a first data length;
15 packetizing the generated first data train into a second data train on a basis of a second data length;
 and
 controlling the first data length at said first packetizing step in accordance with the second data
20 length.

 19. A computer readable storage medium storing an image processing program, the program comprising:
 an input step of inputting data;
25 an encoding step of compression-encoding the data;
 a first packetizing step of packetizing the data encoded by said encoding step into a first data train

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on a basis of a first data length;

a second packetizing step of packetizing the first data train generated by said first packetizing step into a second data train on a basis of a second data length; and

a control step of controlling the first data length at said first packetizing step in accordance with the second data length.

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